

Editor: Holly Berthold, *Metro Media Specialist*Layout: Rene Parker, *Administrative Staff Assistant* 

#### Sunday, May 1, is EARTH DAY!

Come celebrate with us at the Muny in Forest Park from 10:30 a.m. – 6 p.m.

Meet others who care about the environment, learn about what you can do to help protect our natural resources and celebrate the magnificence of planet earth. The festival will feature multicultural music and performers, local non-profit organizations, educational displays, hands-on activities, art, green exhibitors, a peace garden, food and a whole lot of FUN! For more information go to <a href="https://www.stlouisearthday.org">www.stlouisearthday.org</a>



www.mdc.mo.gov RETURN SERVICE REQUESTED

) Hwy D harles, MO 63304

# **Forest Park Office**

6

#### **Backyard Birds**

Wednesday 10 a.m. – 11:30 a.m.

(Ages 3-5) Discover the variety of birds that make their home in your backyard. Children will create their own birding field guide and build their very own special binoculars. We will explore Forest Park to learn how to use our binoculars and fields guides and to see what birds we can find and identify. *Naturalist: Jill Welsh.* (Reservations begin March 23. Call 314-877-1309.)

PRSRT STD.
U.S. POSTAGE PAID
JEFFERSON CITY MC
PERMIT 274



# Making Tracks St. Louis Regional Calendar of Events





# **Becoming a Conservation Agent**

By Scott Corley, Conservation Agent

n April 1, a group of 17 individuals will begin a new career with the Missouri Department of Conservation as Conservation Agent Trainees. Although these Agent Trainees come from a variety of different backgrounds, they each share a common goal to enhance and protect the forest, fish and wildlife resources of Missouri. They will receive 26 weeks of intense training on a variety of subjects. The new recruits will be trained in forest, fish and wildlife resource law enforcement, resource management techniques, officer-safety techniques and a variety of skills necessary to conduct informational and educational programs.

To become a Conservation Agent, you must meet a variety of requirements. You must be at least 21 years of age and have a college degree in one of the following areas: wildlife, fisheries or natural resource management; wildlife conservation; biology or biological sciences; natural resource law enforcement; or criminal justice. The process to become a Conservation Agent can be very competitive. You can expect a large number of people to apply, ranging from 400 up to 1000 applicants, with 10-20 vacant positions to fill every couple of years. The majority of successful applicants not only have a college degree, but also have a variety of work experience in forest, fish and wildlife or other related fields. The Missouri Department of Conservation offers internships, volunteer opportunities and summer employment for college students interested in becoming a Conservation Agent.

Missouri Conservation Agent's duties vary with the time of year and the needs of the county the agent is assigned to. Conservation Agents are certified peace officers of Missouri and are responsible for enforcing the rules of the *Wildlife Code of Missouri*. Agents work many nights and most weekends and holidays—often under adverse weather conditions. The benefits, however, outweigh the challenges. They have many opportunities to meet interesting people, as well as perform an educational role in their community. Conservation Agents provide services to the public through educational programs and media presentations. They work with school groups by conducting hunter education classes and youth programs. They work with the media and write articles for local newspapers. Conservation Agents also assist landowners with habitat improvement contacts and wildlife damage complaints. The variety of duties and responsibilities Conservation Agents perform demands a high level of interest in not only conservation, but also the community in which they reside. If you interested in becoming a Conservation Agent, contact the Missouri Department of Conservation Central Office at (573) 751-4115 or log onto www.mdc.mo.gov and click on the "Jobs" tab.



# August A. Busch Memorial Conservation Area

2360 Hwy D, St. Charles, MO 63304 Office hours are Monday – Friday from 8 a.m. – 5 p.m.

For reservations call (636) 441-4554 Monday through Friday 8 a.m. – 5 p.m. If you are unable to attend a program, please call and cancel as a courtesy to those on our waiting list. Interpretive services are available for those with hearing loss with 5 days notice. From Hwy 40 take Hwy 94 south to Hwy D; turn west on Hwy D for approximately 3 miles. The area entrance is on the north side of Hwy D. Visit www.mdc.mo.gov/areas/stlouis/buschca/

#### **2** Wetlands for Kids

Saturday 10 a.m. – 3 p.m. (All Ages) Learn about wetlands and the critters that live there. Hands-on activity stations include: Reptiles & Amphibians – touch snakes and frogs; Waterfowl – discover the ducks that live on our wetlands;

Retrievers – watch these dogs "retrieve" decoys; and much more! (No reservations necessary.)

#### 8 Nature Journaling

Friday 6:30 p.m. – 8:30 p.m. (Ages 14 & up) Open your mind to nature's wonders. Discover techniques to recognize, recall and record experiences. Weather permitting, we'll be outside; please bring a chair. *Naturalist: Karen Staloch*. (Reservations begin March 25.)

#### **9** Basic Fishing

Saturday 8:30 a.m. – 11 a.m. (Ages 7 & up) Learn the basics needed to get started in fishing. Topics include tackle, rods, reels, baits, casting and types of fish. Fishing poles provided. Naturalist: Al Newman. (Reservations begin March 28.)

#### **9** Trail of Success

Saturday 1:30 p.m. – 6:30 p.m. (Ages 12 & up) Name five Missouri animals that have been taken off the endangered species list due to human intervention. Join us on a five-mile hike at Howell Island and listen to clues about these animals. Dress for the weather and bring a snack. Naturalist: Angie Naughton. (Reservations begin March 28.)

#### 9 Scout Discovery Table: Bird ID/ Flyways

Saturday 10 a.m. – 2 p.m. (Brownies, Juniors, Wolves & Webelos) Birds are amazing creatures that alert us to changes in the environment. Learn to identify birds and discover the flyways they use during migration. **Wolves**: Birds Elective 13d; **Webelos:** Outdoor Group: Naturalist #3, #5; **Juniors**: Let's Get Outdoors: Wildlife #3 #8. Naturalists: Ed Leutwiler & Madolena Key. (No reservations necessary.)

#### 12 Wildflower Folklore

Tuesday 10 a.m. – 11 a.m. (Ages 7-12) Do you know which spring wildflower was thought to relieve a toothache? Learn this and much more as we take a wildflower folklore hike. Please dress for the weather. *Naturalist: Shanna Raeker*. (Reservations begin March 29.)

#### 15 Amphibian Hike

Friday 7 p.m. – 9:30 p.m. (Adults) Join us for an evening on the levees at Marais Temps Clair Conservation Area. Learn to identify toads and frogs by their calls. Dress for the weather and bring a small flashlight. Naturalist: Marv Staloch. (Reservations begin April 1.)

#### Welcome, Hummers

Monday 9:30 a.m. – 10:30 a.m. & 11 a.m. – Noon

(Ages 4-6) Learn about this fascinating jewel of the bird world. We will tell you all about these amazing birds and make a feeder to take home to attract them to your garden. *Naturalists: Kathy Hellmann & Penny Elder.* (Reservations begin April 4.)

#### What's Blooming?

Saturday 9:30 a.m. – 11 a.m.

(All Ages) Nature's tapestry changes by the week during April and colors abound, unshadowed by the thick undergrowth that takes over by mid-summer. Join us for a walk on a trail and see the brilliant displays of spring wildflowers in all their glory. *Naturalist: Gladys Kullman*. (Reservations begin April 7.)

#### 23 Amphibian Hike

Saturday 7 p.m. - 9:30 p.m.

(All Ages) Join us for an evening on the levees at Marais Temps Clair Conservation Area. Learn to identify toads and frogs by their calls. Dress for the weather and bring a small flashlight. *Naturalist: Marv Staloch.* (Reservations begin April 8.)

#### 25 What Exactly Is a Mosquito?

Monday 9:30 a.m. – 10:30 a.m. (Ages 4-6) We will share swarms of facts and offbeat information for a fun look at living with the nuisance of summertime: The Mosquito! Naturalist: Margaret Sutter-McGregor. (Reservations begin April 11.)

# August A. Busch Shooting Range & Outdoor Education Center

2360 Hwy D St. Charles, MO 63304 (636) 441-4554 www.mdc.mo.gov/areas/ranges/busch

#### PUBLIC RANGE HOURS

May 1 through September 30

Friday through Monday 10 a.m. – 4 p.m. Tuesday 2 p.m. – 8 p.m.

October 1 through April 30

Friday through Tuesday 10 a.m. – 4 p.m.

These hours are subject to change.

Please call the range for updated hours.

#### CLOSED DAYS

Wednesday and Thursday All State Holidays

#### RANGE FEES

Rifle/Pistol Range: \$3 per hour/per booth
Trap/Skeet Fields: \$3 per round/per person
Shotgun Patterning: \$2 per person for every set of
three 40 inch patterning targets
Broadhead Archery Range: \$3 per hour/per person
Group or Special Use Permits: Please call to inquire.
Note: Peak usage: 1 hour maximum per permit.

Eye and ear protection is required on all ranges.

# April 2005 Page 7 **Jay Henges Shooting Range**& Outdoor Education Center

1100 Antire Road High Ridge, MO 63049 (636) 938-9548

www.mdc.mo.gov/areas/ranges/henges

#### PUBLIC RANGE HOURS May 1 through August 31

Wednesday 2 p.m. – 8 p.m.

Thursday through Sunday 10 a.m. – 4 p.m.

September 1 through April 30

Wednesday through Sunday 10 a.m. – 4 p.m.

# CLOSED DAYS Monday and Tuesday

Monday and Tuesday All State Holidays

6

#### RANGE FEES

Pistol/Rifle Range: \$3 per hour/per booth
Trap Range: \$3 per 25 targets/per person
Shotgun Patterning Range: \$2 per hour/per person
Archery Range: \$3 per hour/per person
Range Special Use Permit: \$20 per hour/per permit
Building Use Permit: Inquire

NOTE: Peak usage: 1 hour maximum per permit
Trap Ranges: No shot size larger than 7½
Pistol/Rifle Range: No center fire ammunition large than .50 caliber
Ear & eye protection is required on all ranges.

#### Throughout April, enjoy outdoor shooting sports at our ranges.

MISSOURI

Archery \*Rifle/Pistol\* Shotgun Patterning\* Trap/Skeet

Ranges are closed on state holidays and for special events. For program information, check our website: www.mdc.mo.gov/areas/ranges

### **Rockwoods Reservation**

2751 Glencoe Road, Wildwood, MO 63038 Office hours are Monday – Friday from 8 a.m. – 5 p.m.

For reservations call (636) 458-2236 Monday through Friday 8 a.m. – 5 p.m. If you are unable to attend a program, please call and cancel as a courtesy to those on our waiting list. Interpretive services are available for those with hearing loss with 5 days notice. From I-44 take Hwy 109 north 4 miles to Woods Avenue; left on Woods Avenue, and then immediately right on Glencoe Road. From Manchester Road take Hwy 109 south 2 miles to Woods Avenue; right on Woods Avenue, and then immediately right on Glencoe Road. Visit www.mdc.mo.gov/areas/stlouis/

#### 1 Amphibian Night @ Forest 44

6:30 p.m. – 9 p.m. Friday (All Ages) Join us as MDC Herpetologist Jeff Briggler teaches about native amphibians and takes us on an exploratory hike. We will listen and record the frogs chorusing on the ponds of Forest 44. Learn to identify different species of frogs and their biology. Herpetologist: Jeff Briggler. (Reservations begin March 18.)

#### 3 Animal Tracks: Be a Tracker!

Sunday 1 p.m. - 2:30 p.m.(All Ages) Learn to read tracks to figure out what kind of animals passed by and maybe even what they were up to! Increase awareness and understanding of the creatures that share the trails with you. Make a guidebook with prints of animal tracks. Naturalist: Jane Deschu. (Reservations begin March 21.)

#### 9 **Habitat Restoration Day!**

10 a.m. – 12:30 p.m. Saturday (Ages 7 & up) For years, the staff and volunteers at Rockwoods have worked to improve habitats for wildlife and plant diversity. We need your help to stop invasive species. Certain plant species have choked out native vegetation, leaving areas where native plant and animal communities are in trouble. Each year, return to Rockwoods and see the positive impact each one of us can make. Scouts, families and groups are encouraged to participate. Please bring gloves and dress for the weather. Lunch will be provided. (Reservations begin March 24.)

#### **HOMESCHOOL**

#### **Earth Day Celebration**

Friday 10 a.m. - 11:30 a.m. (All Ages) We all have a responsibility to care for the earth. Join us as we learn different ways to reduce, reuse and recycle. Each of us can make a difference in our stewardship of the earth; sometimes all we have to do is learn how. We'll play a "jeopardy" Earth Day game, and then try our hand at making a worm compost bin for the family. Naturalist: Anna-Lisa Tucker. (Reservations begin April 7.)

#### **Scout Discovery Table: Poisonous & Venomous Things**

 $10 \ a.m. - 2 \ p.m.$ Saturday (Scouts) Do you know the difference between 'poisonous" and "venomous"? How many different venomous snakes are there in Missouri? Can you identify poison ivy? What spider has a fiddle on its back? Learn the answers to these questions and many more. Wolves: Outdoor Adventure Elective 18g; Webelos: Naturalist #6; Juniors: Wildlife #5; Plants and Animals #9. Naturalists: Sally Roberts & Ed Leutwiler. (No reservations necessary.)

#### 23

#### Eggs-Actly!

10 a.m. - 11:30 a.m. Saturday Deaf and Hearing-Impaired Family and Friends (Ages 5 & up) Eggs...what are they made of? What's inside them? How many kinds of animals hatch from them? Can you take the shell off a chicken egg without breaking it? Sound impossible? We'll show you how, and much more! Naturalist: Sheri Medlock. (Reservations begin April 8.)

#### **Understanding Bats 29** Friday

7 p.m. - 8:30 p.m.

(All Ages) Come discover the myths and legends of the dark world of bats. You will have fun learning all about nature's "bug zappers"—unique and helpful animals. You will discover that bats are not the horrible creatures portrayed in the movies. Naturalist: Jean Favara. (Reservations begin April 15.)

#### **HOMESCHOOL**

#### **Journaling about Nature 30**

10 a.m. - Noon Saturday

(Homeschoolers Ages 7-12) Get in touch with the world around you by keeping a nature journal. It's not as hard as you might think, and you may find hidden reservoirs of peaceful creativity lurking beneath your busy, harried life. Nature journaling is your path into exploration of the natural world around you. Whether you live on a busy city street or a quiet, suburban road, there are plenty of animals, plants and seasons to watch, sketch and write about. Naturalist: Glenda Myers. (Reservations begin April 15.)

## **Columbia Bottom Conservation Area**

9

April 2005 Page 3

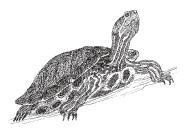
801 Strodtman Rd., St. Louis, MO 63138 Office hours are Wednesday – Friday from 8 a.m. – 5 p.m. Saturday – Sunday from 8 a.m. – 4 p.m. For reservations call (314) 877-6014 Wednesday through Sunday 8 a.m. - 4 p.m. If you are unable to attend a program, please call and cancel as a courtesy to those on our waiting list. Interpretive services are available for those with hearing loss with 5 days notice. From I-270 north take the Riverview Drive exit (last Missouri exit); go north approximately 2.8 miles. Riverview Drive becomes Columbia Bottom Road at its intersection with Larimore Road. The entrance is on the right-hand side. Visit www.mdc.mo.gov/areas/areas/bottom/

#### **Retiree River Ramble** 6

9 a.m. - Noon Wednesday (Ages 60 & up) Enjoy a leisurely hike along with other seniors at a pace suited to this age group. This month we will be looking for the arrival of kingfishers and house wrens. The sounds of spring should be in the air and we will be listening for the bobwhite quail. Volunteer Naturalist: David Petree. (Reservations begin March 23.)

#### **Aquatic Adventure** 6

 $1:30 \ p.m. - 3 \ p.m.$ Wednesday (Ages 7-12) Are you ready to find out what's living in the slough? We will explore the slough to discover new inhabitants as many critters emerge for the spring. Frogs, turtles and aquatic insects are among the creatures that we may find. Come see what makes them unique and how they can indicate water quality. Participants should dress for a mess, including shoes that can get wet and muddy. Naturalist: Lisa Reid. (Reservations begin March 23.)



#### **Birding for Beginners**

10 a.m. – 11:30 a.m. Saturday (Ages 3-6) Discover the wondrous world of bird watching through stories, songs, crafts and hiking. Create your own birding field guide and binoculars to use on our bird walk. In case of rain the "hike" will be indoors. Volunteer Naturalist: Andra Stanley. (Reservations begin March 25.)



#### **Amphibian Night Hike**

Saturday

7 p.m. – 8:30 p.m. & 8 p.m. – 9:30 p.m.

(All Ages & Scouts) Spring is coming! Just step outside and listen to the frogs singing in spring. Discover the amazing life cycle of frogs; become a member of our "frog band"; take a hike and listen to the amazing sounds of the wetlands. You can learn to identify several frogs and toads by their unique songs. Bring your flashlight and dress warmly as we explore the frog ponds. Volunteer Naturalist: Lena Dowers & Naturalist: Rhonda Anderson. (Reservations begin March 25.)

#### **23 Celebrate Earth Day!**

Saturday  $10 \ a.m. - 11:30 \ a.m.$ (Ages 3-6) The earth is waking up! Come celebrate Earth Day with stories, crafts and games. You are never too old or too young to enjoy the wonders of our planet. Volunteer Naturalist: Kathy Schroeder. (Reservations begin April 8.)

#### 23 Who Lives in a Rotten Log?

10 a.m. − 11:30 a.m. (Ages 7-12) Take an up-close look at the weirdlooking critters that live in the dark recesses of a rotten log. Discover the important role they play in the life cycle of a tree and find out how they benefit the whole forest. Volunteer Naturalist: Pat Behle. (Reservations



#### Columbia Bottom Volunteer Milestones

G.T. Templeton......200 hours

# **Powder Valley Conservation Nature Center**

11715 Cragwold Road, Kirkwood, MO 63122 Nature Center hours are daily from 8 a.m. - 5 p.m.

For reservations call (314) 301-1500 Monday through Friday 8 a.m. – 5 p.m. If you are unable to attend a program, please call and cancel as a courtesy to those on our waiting list. Interpretive services are available for those with hearing loss with 5 days notice. From I-44 east in Kirkwood, take Watson Road, exit and turn north on Geyer Road. Follow Geyer Road 200 yards to Cragwold Road. Go 1 mile west on Cragwold Road. Visit www.mdc.mo.gov/areas/cnc/powder/

# 2 Scout Discovery Table: Forest Trees

Saturday 10 a.m. – 2 p.m.

(All Ages) Discover the wonders of Missouri forests while working on badge activities. Designed for Brownies and Junior Girl Scouts and Webelos.

Webelos can complete Outdoor Group: Forester #3, #4. Brownies can work on What's Out There?: Plants #4. Juniors can work on Let's Get Outdoors: Earth Connections #3, #4, #6, #8; Explore and Discover: Science Discovery #5. All are welcome and encouraged. Check it out! Staff Naturalist:

# 4 Traveling the Lewis & Clark Trail

David Bradford. (No reservations necessary.)

Monday 1 p.m. – 2:30 p.m. (Adults) A volunteer naturalist will relate his experiences traveling the Lewis & Clark Trail and the related history. *Volunteer Naturalist: Tom O'Gorman*. (Reservations begin March 21.)

# 6 Name that Wildflower at Emmenegger (Part 2)

Wednesday 1 p.m. – 3 p.m. (Ages 7 & up) Join us for a walk through Emmenegger Park to see the spring wildflowers in bloom. Meet at the bridge. Volunteer Naturalists: Dick and Neva Wasson. (Reservations begin March 23.)

#### 12 Canoeing for Beginners

Tuesday 6:45 p.m. – 8:30 p.m. (Ages 16 & up) Learn the basic concepts of canoeing techniques, reading a river and safety tips before putting your canoe into the river. Volunteer Naturalist: Tom Bayer. (Reservations begin March 29.)



# Early Woodland Wildflowers

Wednesday 7 p.m. – 8:30 p.m. (Ages 12 & up) Discover the celebration of spring by early Missouri wildflowers. Volunteer Naturalists: Pat Harris and Joan Hummel. (Reservations begin March 30.)

#### **17** Canoeing for Beginners

Sunday 1 p.m. - 2.45 p.m. (Ages 16 & up) Learn the basic concepts of canoeing techniques, reading a river and safety tips before putting your canoe into the river. *Volunteer Naturalist: Tom Bayer.* (Reservations begin April 1.)

# Name that Wildflower at Emmenegger (Part 2)

Sunday 1 p.m. - 3 p.m. (Ages 7 & up) Join us for a walk through Emmenegger Park to see the spring wildflowers in bloom. Meet at the bridge. *Volunteer Naturalists: Dick and Neva Wasson*. (Reservations begin April 1.)

# 18 Traveling the Lewis & Clark Trail

Monday 1 p.m. – 2:30 p.m. (Adults) A volunteer naturalist will relate his experience traveling the Lewis & Clark Trail and the related history. *Volunteer Naturalist: Tom O'Gorman*. (Reservations begin April 4.)

# 27 HOMESCHOOL Show-Me Missouri's Aquatic Life!

Wednesday 3 p.m. – 4:30 p.m. (Ages 7-12) Ever look a fish in the eye? Even when it's swimming under four feet of water? Now's your chance! Visit the Show-Me Missouri Fish Mobile Aquarium and practice collection techniques at one of Powder Valley's ponds. (All specimens will be released to the pond after being studied.) Please meet in the Staging Area promptly at 3 p.m. Strollers are not recommended. Dress for the weather. Staff Naturalist: Catherine McGrane. (Reservations begin April 13.)



#### **Show-Me Missouri Fish Mobile Aquarium**

Saturday, April 30 Sunday, May 1 10 a.m. – 4 p.m.

Back by popular demand! It's the Show-Me Missouri Fish Mobile Aquarium at Powder Valley Conservation Nature Center on Saturday, April 30, and Sunday, May 1. The Mobile Aquarium is 40 feet long, contains 3200 gallons of water and is used for fishing demonstrations and aquatic education.

Up to 25 different species of Missouri-s native fish will be on display. Come and see some of the more popular sport and game fish along with fish rarely seen by most people. The fish swim among rocks, logs and plants which lend a natural setting to an already fascinating exhibit. The Mobile Aquarium is a great way to hone your fish identification skills and view the curious adaptations of various species.

Fisheries biologists and technicians also demonstrate fishing tips and techniques from atop the Mobile Aquarium. They'll discuss the ecology of fish and how seasonal behavior, distribution and habitats relate to recreational fishing.



Programs are 30 minutes in length and start at 10 a.m., 11 a.m., 12:30 p.m., 1:30 p.m., 2:30 p.m. and 3:30 p.m. Between demonstrations, Missouri Department of Conservation personnel will be on hand to answer questions and provide literature. We'll also have the Virtual Fishing Simulator, casting lanes and craft activities for the kids from 10 a.m. until 4 p.m. And to think, all this while the fish continue to entertain, teaching young and old alike how aquatic creatures move and live in their natural environment.

#### Powder Valley Conservation Nature Center Nature Films for April 2005

#### April 2 & 3

10 a.m. – 11 a.m. & 1 p.m. – 2 p.m. Eyewitness: Tree The Man Who Planted Trees 11 a.m. – Noon & 2 p.m. – 3 p.m. Forestry Research & Practice Forests for the Future

#### April 9 & 10

10 a.m. – 11 a.m. & 1 p.m. – 2 p.m. Eyewitness: Weather MAGIC SCHOOL BUS: Kicks Up a Storm 11 a.m. – Noon & 2 p.m. – 3 p.m. Headwaters Downstream

#### April 16 & 17

10 a.m. – 11 a.m. & 1 p.m. – 2 p.m. Keep the Balance Special Report: You Can Make a Difference 11 a.m. – Noon & 2 p.m. – 3 p.m. Guarding Our Living Environment Outdoor Education/Kids & Conservation III

#### April 23 & 24:

10 a.m. – 11 a.m. & 1 p.m. – 2 p.m. Eyewitness: Fish Eyewitness: Pond and River 11 a.m. – Noon & 2 p.m. – 3 p.m. Rivers & Streams

#### April 30 & May 1

(No films shown this weekend. Plan to attend the Mobile Aquarium.)

#### **Book Donations Appreciated**



Would you like to help Powder Valley improve its library? Consider donating a book or two. We are looking for books that relate to Missouri's natural history—its fish, forests and wildlife. They should be new or no older than 20 years and in good condition. They can be adult or children's books

If the book you donate is new, we'll be glad to give you credit for your donation with a bookplate inside the book. When donating the book, please attach a note with your name and address on it.

#### Powder Valley Volunteer Milestones

Bob Anderson2900 hours	Lee Roy Halbeck400 hours	Tjaden Meyer2400 hours
Alma Dulz3400 hours	Pat Harris3700 hours	Dietrich Mueller1200 hours
Maury Frein700 hours	Priscilla Jenkins	Tom O'Gorman3000 hours
Charlie Gentry800 hours	Mary Hittler600 hours	Art Paule